



SD Program of Study Plant Systems Pathway

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	GRADE	English	Math	Science	Social Studies/ Sciences	SD Required Electives	Career & Technical Education Courses	SAMPLE Career Options Relating to This Pathway
Interest Inventory Administered and Plan of Study Initiated for all Students								
SECONDARY	9	* English I	* Algebra I	* Physical Science	* World History * Geography	* PE/Health * Fine Art Elective	Introduction to Agriculture, Food, and Natural Resources Leadership and Personal Development	Occupations Requiring Postsecondary Education ► Agricultural Journalist ► Biotechnology Lab Technician ► Commodity Marketing Specialist ► Custom Hay/Silage Operator ► Farmer ► Golf Course Manager ► Grain Operation Superintendent ► Green House Manager ► Rancher ► Tree Surgeon Occupations Requiring Baccalaureate Degree ► Agricultural Educator ► Bioinformatics Specialist ► Botanist ► Plant Breeder and Geneticist ► Plant Pathologist ► Soil and Water Specialist
	10	* English II	* Geometry	* Biology I ✧		2 units total - any combination of: * World Language or	Fundamental Plant Science; Agriscience † Horticulture	
	Academic/Career Advisement Provided - College Placement Assessments							
	11	* English III	* Algebra II	* Chemistry ✧	* American History	* Computer Studies or Approved Career & Technical Education	Advanced Plant Science; † Agriculture Biotechnology Landscape, Design and Maintenance	
	12	* English IV	Calculus	College Science Elective	* U.S. Government * Psychology	* Personal Finance or * Economics	† Greenhouse Management; Floriculture *Capstone Experience	
	The general course identified in this Program of Study are those required as part of S.D. Advanced Pathway to Graduation.							
POSTSECONDARY	Year 13	Written and Oral Communications	College Level Math	Natural Sciences	Social Studies/ Sciences	Computer Literacy		
	Year 14	Written Communications	Information Literacy			Wellness for Life Arts & Humanities		
	Year 15							
	Year 16							
◀Blue Text - College Level - Dual Credit								† Red Text - Courses can be articulated to Postsecondary Education
Underlined Text - Industry Certification Available								* Classes available through Virtual School ✧ Recommended academic